



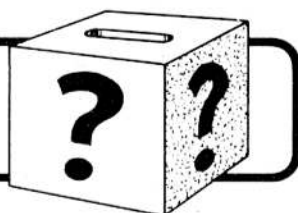
# NUCLEAR DIVISION NEWS

*A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation*

Vol. 4 - No.15

August 2, 1973

## QUESTION BOX



*If you have questions on company policies, benefits, etc. or any other problems with which we might help, just let us know. Drop your inquiry to the Editor, Nuclear Division News. (Or telephone it in to your plant news representative . . . see page two). You may or may not sign your name. It will not be used in the paper if you so desire.*

*Questions are referred to the proper authorities for accurate answers. Each query is given serious consideration for publication.*

*Answers may be given to employees personally if they so desire.*

**Editor's Note:** The Question Box has become an extremely popular column. To date, more than 120 questions have been received. Because of this interest, and available space, there is often a time lag between receipt of a question and an answer in the Question Box. When a question is particularly timely, we will make every effort to answer it promptly.

**QUESTION:** The opportunity for an employee to purchase U.S. Savings Bonds through payroll deductions is, admittedly, a convenience for those employees who wish to do so; and the usual drive to register these employees is a fine contribution by the Corporation in manpower time and energy. The Company has an obligation to make the Savings Bond Program available to its employees. However, availability and coercion are far from the same things.

An individual employee's allotment of his income to various expenditures is a private decision that is based on his personal financial situations. Should the decision to buy bonds be forced upon an employee by pressure from over-zealous campaign representatives who infer that the employee who does not participate is unpatriotic to his country or disloyal to his division if he is the cause of the division not attaining 100% enrollment? Are statistics available to show how many employees cancelled their deductions shortly after the bond drive ended? Are statistics available to show how many employees signed up for only the minimum token deductions? Has a survey ever been taken of employees to find out how many signed up only because pressures were exerted to conform?

**ANSWER:** Employees are encouraged to purchase U.S. Savings Bonds by payroll deductions through an annual campaign which highlights the advantages and convenience of this method of saving. We feel that a full explanation of the program and the special place that the Nuclear Division as a Government contractor occupies provides the incentive for a high enrollment. It is certainly not intended to coerce employees to join in this fine program. The program is voluntary and must be recognized as such by all employees involved in the annual campaign.

Savings Bond enrollment just before this year's campaign remained at 92.3%

of its level at the end of the last year's campaign. In calendar year 1972, over \$1,800,000 was subscribed by employees to Savings Bonds, an average of over \$26 per month per employee across the Nuclear Division. These statistics demonstrate that the bulk of the enrollment is not a token participation and that the enrollment is stable. This is especially true since an employee may withdraw at any time.

**QUESTION:** Is it Company policy at Y-12 to notify bargaining unit personnel of decisions affecting the plant before notifying line supervision at the shop level? If so, why? Three examples of this type of information dissemination are as follows:

1. Reduction in force of plant personnel in early 1972. Bargaining unit personnel had the information before shop supervision.

2. The reduction in force this year. Bargaining unit personnel had the full details, including the numbers of people involved, two days before shop supervision was officially informed.

3. Plans for the Company-wide improvement in the Pension Plan. The bargaining unit distributed printed information on the changes on March 8, 1973. On March 16, 1973, more than one week later, proper supervision had not been officially informed. Our information came from the hourly people and from reading the local papers.

It is our contention that this manner of information dissemination leaves a great deal to be desired. This is particularly true of line supervision at the shop level. It leaves us with the feeling that shop supervision cannot be trusted with such information.

**ANSWER:** In the reductions in force mentioned, the plant superintendent first notified the division superintendents,

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## Y-12's safety performance earns highest commendations

Union Carbide Corporation's "Distinguished Safety Performance" award, the National Safety Council's "Award of Honor," and the Atomic Energy Commission's "Award of Honor," all came to the Y-12 Plant recently.

William S. Sneath, President of UCC, congratulated personnel in the plant for the signal honor, pledging to return to Oak Ridge when this (or any of the other three plants) repeats the performance of going an entire year without a lost-time accident.

Sneath reiterated the UCC safety policy, "People are our most important asset -- their safety and health our greatest responsibility," coupled with the Nuclear Division's added policy, "It is the policy of the Nuclear Division to maintain an effective accident prevention program. Whenever our safety objective conflicts with other objectives, safety shall be our first consideration." "We subscribe to this wholeheartedly," Sneath declared, "and congratulate the Y-12 Plant on its safety performance."

The three major safety awards came to the plant in recognition of 13.7 million



William S. Sneath

man-hours worked without a disabling injury - for 376 calendar days, extending from October 20, 1971, through October 29, 1972. The average employment in the plant during this period was 7,375.

### Individual involvement

In accepting the awards, Y-12 Plant Superintendent Jack M. Case referred to individual involvement several times. "This is the key to our program, and there is a continuing effort to enlarge the participation of all employees in our safety program."

The National Safety Council's award, presented in behalf of the council by Paul R. Vanstrum, vice president of the Nuclear Division, is given to less than five percent of industrial plants in American industry. "Yet, Y-12 has received the award ten times in the past 20 years," officials noted.

Additional pictures of award presentations may be found on page three.

## Sales and earnings break new records

Union Carbide's second-quarter sales and earnings set new records. Sales for the period were \$973.5 million, 20 percent above the \$810.1 million reported in the second quarter of 1972. Net income amounted to \$76.9 million, or \$1.27 a share, 43 percent higher than the \$53.9 million, or \$0.89 a share, earned in the same period a year ago. The 1972 figures include \$1.9 million, or \$0.03 a share, due to extraordinary items.

For the first six months, sales amounted to \$1,888.9 million, compared with \$1,569.7 million in the corresponding period of 1972, an increase of 20 percent. Net income for the first half was \$143.2 million. This is 36 percent higher than 1972 first-half net income of \$105.0 million, or \$1.73 a share, which included extraordinary items totaling \$2.9 million, or \$0.05 a share.

The strong demand for the corporation's industrial products, which had characterized the first quarter, continued unabated in the second quarter. Sales of consumer and related products also showed very satisfactory gains. Total domestic sales were ahead of those in the 1972 second quarter by 18 percent. Business also continued to be very good outside of the United States, with sales for the quarter showing a gain of 24 percent.

"Y-12 was the only facility to earn the award in 1972," Vanstrum pointed out, "but the other facilities within the Nuclear Division have also gained outstanding safety achievements over the years." ORGDP worked one year without a disabling injury during 1968; ORNL worked more than a year, or 8.5 million accident-free hours in 1969 and 1970; and thus far, the Paducah plant has had an accident-free record, he concluded.

(Continued on page 8)



# 10 Nuclear Division secretaries pass CPS tests

The Nuclear Division made history recently with the notification that 10 of its secretaries had passed the rigorous tests, qualifying them as Certified Professional Secretaries. The record-breaking numbers are allocated as follows: three in the Purchasing Division; two in the Thermonuclear Division of the Oak Ridge Laboratory; two additional ORNL employees in the Instrumentation and Controls Division; one in Paducah; and one in the Computer Sciences Division at Oak Ridge Gaseous Diffusion Plant. One employee, Judy W. Phillips, is on maternity leave from ORGDP.

## Velva Blayney

Velva Blayney, Paducah's Engineering Division, is a graduate of Draughon's Business College and has done work at the Paducah Community College as well as in the adult education classes at Tilghman Area Vocational School.

She was recently named Kentucky's secretary-of-the-year by the state-wide National Secretaries Association.

Mrs. Blayney and her husband, Joseph, live at 2909 Broadway, Paducah. They

are active in the Westminster Presbyterian Church.

Mrs. Blayney was one of five Kentuckians passing the rigid CPS examinations.

## Patricia J. Ellis

Patricia J. Ellis, a native of Lebanon, joined Union Carbide in 1968, in the Purchasing Division. She had worked for the Citizens Bank in Cookeville and for an attorney in her native Lebanon before coming here.

Her husband, David, is in Y-12's Process Engineering, and they live at 693 Robertsville Road, Oak Ridge.

Mrs. Ellis likes to read and has added ceramics to her pastime recently.

## Linda T. Hensley

Linda T. Hensley, also in the Purchasing Division, came with Union Carbide six years ago. She was born in Oak Ridge and attended schools here, and at The University of Tennessee.

Mrs. Hensley and her husband, Charles, live at 112 Viking Road, Oak Ridge. He is in Engineering at ORGDP.

She likes to swim and ski in her spare time.

## Mary M. King

Mary M. King, Computer Sciences Division, joined Union Carbide in 1955, and has worked in employment, Technical Division and Operations Analysis Division. She worked with the Graybar Electric Company, before coming to ORGDP.

Mrs. King attended Clark's Business College, Topeka, Kan., and Knoxville Business College. She has also participated in the UT Evening School curriculum and in the NSA-sponsored courses.

Mrs. King and her husband, Wayne W., live at 7737 Widdecombe, Powell. Their son, Steven, is in the ninth grade at Powell High School.

She lists sewing, ceramics and reading as occupying most of her spare time.

## Mary O. McKinney

Mary O. McKinney, Purchasing, is a native of Kokomo, Ind. She attended Knoxville Business College, and has been with Union Carbide 27 years. She worked in a Knoxville law firm before joining Purchasing.

She and her husband, W.W. McKinney, live at Route 5, Powell. He teaches building trades at Halls High School. They have two daughters, Rosemary Wells, and Barbara Marcum, who works at ORNL. They also have two grand-daughters.

Mrs. McKinney likes to "dabble" in painting, and plays the piano, takes voice, and enjoys knitting, swimming and fishing. She is secretary of the Powell Eastern Star.

## Donna Slagle

Donna Slagle, Thermonuclear Division, a native of Corrinton, joined Union Carbide in 1969.

She has a B.S. degree from UT in business administration, and lives at Corrinton.

Miss Slagle enjoys swimming, fishing and reading as hobbies.

## Dramia M. Smith

Dramia M. Smith, Instrumentation and Controls Division, has worked at ORNL for 16 years.

Mrs. Smith was born in Newport, Tenn., and attended Draughon's Business



LINDA HENSLEY



MARY McKINNEY

PATRICIA ELLIS



MARY KING



VELVA BLAYNEY



DONNA SLAGLE

(Continued on page 8)



## Killion and Winters named in promotions

Two recent promotions at the Paducah Gaseous Diffusion Plant are announced, as John H. Killion and Bob L. Winters have been named associate chemists. Killion is in the Laboratory Division; Winters in the spectrochemical laboratory.

Killion joined Union Carbide in Paducah in 1969 after receiving a B.S. degree from Arkansas State University. He worked several years in the isotope measurement group and is presently working in the diffusion technology section.

He and his wife, Linda, both natives of Forrest City, Ark., live on Hansen Road, Paducah. They have two sons, Jeffrey and Jason.

Killion lists hunting, fishing and archery as his chief hobbies.

Bob L. Winters, a native of Poplar Bluff, Mo., has been at Paducah for four years. He has a B.S. degree from Southeast Missouri State College and has done graduate work at the University of Missouri.



Killion

Winters

He worked for Lever Brothers, St. Louis, and The Bureau of Mines, Rolla, Mo., before joining the staff at Paducah.

Winters and his wife, Barbara, live near Kevil, Ky., where he enjoys fishing and gardening.



To Albert H. Malone and Robert L. Shepard, ORNL, for "Attenuation Compensation for Ultrasonic Thermometers."

To Allen M. Veach and William A. Bell Jr., ORNL, for "Gas Leak Valve."

To Roland P. Hammond and John W. Michel, ORNL, for "Irrigation System."

## Division Deaths

Kenneth A. Bivens, Y-12's general expediting and auxiliary services, died July 19, at Loudon County Memorial Hospital.

A native of Monroe County, Mr. Bivens came to Y-12 in 1954.

He is survived by his wife, Mrs. Lois Rucker Bivens, 505 Harper Street, Loudon; sons, Mike, Danny and Paul; father, Worth Bivens; two brothers and two sisters.



Mr. Bivens

Funeral services were held at the Karnes chapel with the Rev. Jewell Watson officiating. Interment followed in the Loudon County Memorial Gardens.

Alton D. Williams, an engineering technologist in the Instrumentation and Controls Division at ORNL, died July 20 while on vacation in Key Largo, Fla.

Mr. Williams was born in Helena, Mont. He later moved to New Orleans, La., where he attended St. Paul's College. Mr. Williams liked water sports, and was an amateur radio enthusiast. He had worked at ORNL for almost 30 years.



Mr. Williams

Survivors include his wife, Mrs. Charlotte Craig Williams, 4209 Landon Drive, Knoxville; a son, David Williams; and a daughter, Bennie Sue Williams.

Graveside services were held July 23 at Longfield Cemetery, Lake City, with the Rev. Lewis D. Gourley officiating.

### RETIRED Y-12 SAFETY MAN

Joe F. Carpenter, Melton View Lake, Knoxville, died July 19 at the Oak Ridge Hospital. He retired some 14 years ago from Y-12's Safety Department. Mr. Carpenter is survived by his wife and daughter, and four grandchildren.



Robert L. Wesley

## Bob Wesley joins public relations

Robert L. Wesley has been promoted to the position of senior public relations representative with the public relations department of the Nuclear Division.

Wesley has been associated with Union Carbide since 1961. He served for five years with the public information staff at Oak Ridge National Laboratory prior to joining the technical information department at Y-12.

He has produced several motion pictures. One of these, "The Safe Handling of Enriched Uranium," is in the National Archives and the U.S. Atomic Energy Commission's film library.

A native of Knoxville, Wesley received his bachelor of science degree in journalism from The University of Tennessee in 1954. He served for two years as an officer with the U.S. Army Ordinance, following which he worked for five years as a newsman with Knoxville television stations WBIR and WATE.

Wesley is a member of the National Association of Science Writers and the National Audio Visual Association.

He is married to the former Doris Rogers. They and their three children live in Crestwood Hills, Knoxville.



AEC COMMENDATION — Robert J. Hart, manager of Oak Ridge Operations of the Atomic Energy Commission, right, presents Jack M. Case the commission's Award of Merit, honoring Y-12's safety performance for 1972.



MULTIPLE AWARDS — The Y-12 Plant was awarded the National Safety Council's "Award of Honor," recently in recognition of 13.7 million man-hours, or 376 calendar days, without a lost-time accident. Paul R. Vanstrum, vice president of the Nuclear Division, presents Jack M. Case, plant superintendent, the Council's highest



award of performance. Union Carbide Corporation's "Distinguished Safety Performance" was also awarded the plant by William S. Sneath, president of UCC. From left are Roger F. Hibbs, president of the Nuclear Division, Case, Sneath, Robert J. Hart, ORO manager for the AEC, and Vanstrum.



# COMPANY Service

20 25 30

Y-12 PLANT  
30 YEARS



Brown

Mrs. Coram

Six Y-12ers mark 30 year anniversaries with Union Carbide, observing hire-in dates back to World War II days.

Kenneth F. Brown, also of stores, was born in Chattanooga. He lives with his family at 6112 Seiverville Pike, Knoxville.

Sarah B. Coram, a native of Knoxville, is in Y-12's stores department. She attended National Business College, and lives with her husband, Cecil, at 122 Viking Road, Oak Ridge.



Mrs. Eager

Harris

Margaret Holley Eager, a native of Clinton, is in Y-12's Production Analysis. She is a graduate of Tennessee College for Women, Murfreesboro, and lives in Clinton.

Clarence E. "Fuzz" Harris, research services, is a native of Athens. He served in the Tennessee National Guard from 1933 until 1940, and worked with the Hercules Powder Company before coming to Y-12. He is married to the former Elizabeth Younghanse, who also works in Y-12. They live on Sonja Drive, Concord.



Mrs. Bryan

Mrs. Martin

Irene H. Bryan, long-time employee in the cafeteria, is a native of Rutherford, N.C. She lives at 2716 Tarleton Avenue, Knoxville.

Mary S. Martin, Y-12's stores department, is a native of Mentor, Tenn. She presently lives in Oliver Springs.

## 25 YEARS

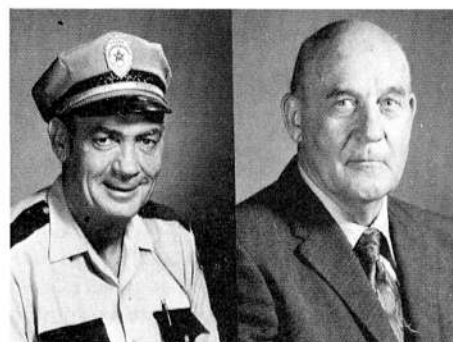
Olen N. Shultz and Virginia J. Boswell.

## 20 YEARS

Lester R. Edwards, Vaughn D. Hendrickson, Joe Owens, Jessie N. Greer Jr., Leonard M. Brown, Floyd K. Shook,

Tyrus C. Land, David G. Watson, William A. Norman Jr., James A. Wade, Charles E. Irwin, Chester R. Rea Jr., Willis F. Grigsby, Robert L. McIlwain, Raymond E. Seivers, Woodrow Jackson, William D. Langford, James E. Summers, Lilburn H. Hensley, Chester A. Franklin and John S. Jones.

## ORNL 30 YEARS



Carter

Pressly

William H. Carter is a security guard in the Laboratory Protection Division. A native of Knoxville, Carter enjoys gardening and fishing. He has a son and daughter. Carter lives with his wife, Gladys, at 605 Hickory Drive, Knoxville.

Roscoe S. Pressly is one of the original members of the Isotopes Division. He is currently on loan to the Agreements and Exports Branch of the Fuels and Materials Department, Directorate of Licensing, AEC, Washington. He attended Monmouth College in Illinois, the University of Iowa and The University of Tennessee. Pressly was part of the crew that loaded the Graphite Reactor under the direction of Enrico Fermi. His hobbies are fishing and camping. He and his wife, Jacquelin, have three children.



Viar

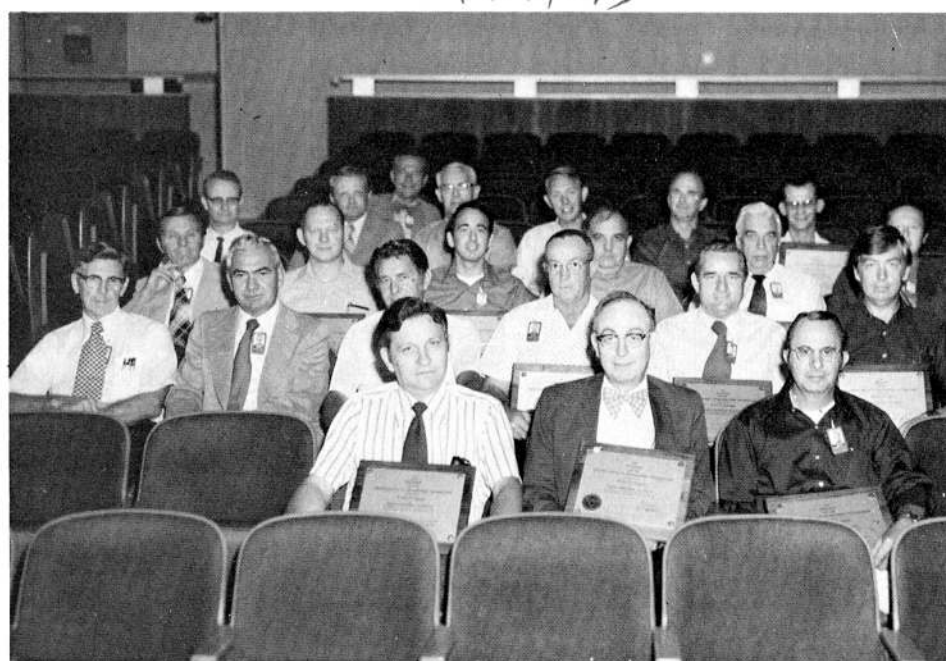
Charles L. Viar is a technical supervisor at ORIC. He came to work for Tennessee Eastman in the old Electronuclear Division. He and Margaret, his wife, have two sons. She works at AEC-ORO. Viar enjoys golfing and gardening in his spare time. At 48, Viar is one of the youngest employees to reach the 30 years of company service mark.



Dykes

Penland

Wayne H. Dykes is in the program maintenance department of the Plant and Equipment Division. He was born in California, but has spent most of his life



**CERTIFIED ENGINEERING TECHNICIANS** — Technicians in ORNL's Chemical Technology Division who were recently certified by the Institute for Certification of Engineering Technicians are shown with their supervisors. From left, front row, Frank Rogers, Al Gregory and Homer Thompson; second row, Bob Horton, Don Ferguson, Carl Martin, Bill Bryan, Andy Johnson and Warren Sisson; third row, Bob Brooksbank, Melvin Hill, Dan Owsley, Richard Shipwash, R.B. Waters and Gene McNeese; fourth row, Chuck Scott, Bill Bostic, Harlan Caldwell, Arnold Beets, Ed Cagle and Bill Howerton; back row, Bill Unger.

# ORNL's Chem Tech honors engineering technicians

The Chemical Technology Division at Oak Ridge National Laboratory held a program recently to honor its first group of technicians to be certified by the Institute for Certification of Engineering Technicians. Certification is offered by the ICET to technicians on the basis of their educational background and experience in engineering-type research and development work.

Of the 81 technicians in CTD, 57 have applied for certification. Nineteen of the 57 have been certified and were honored by the program.

Don E. Ferguson, director of CTD, commended the technicians on their accomplishment and service to the Division. Wall plaques, made on aluminum from photostatic copies of the ICET certificates, are being prepared by the Division. These plaques are mounted on a walnut base and will be displayed in the section to which the technician is assigned.

Presentations were made as follows. Robert E. Brooksbank, pilot plant section, to Arnold L. Beets, William T. Bostic, William J. Bryan, Edward B. Cagle, Harlan S. Caldwell, Melvin C. Hill,

Andy L. Johnson, Carl W. Martin, Dan B. Owsley, Richard C. Shipwash, Homer C. Thompson and Robert B. Waters; L. Eugene McNeese, unit operations section, to Jack Beams, Frank G. Kilpatrick, Frank L. Rogers, Warren G. Sisson and Donald E. Spangler; Charles D. Scott, chemical development section B, to William B. Howerton; and William E. Unger, engineering coordination and analysis section, to George K. Ford and Albert H. Gregory.

Other programs sponsored by CTD for technicians include: a technical improvement program which uses programmed instruction methods in a number of courses for self-improvement, and a qualification program of video tape instruction coupled with written examinations which is used to insure understanding and capability in process operations requiring close control. Robert W. Horton coordinates these training programs for the Division.

## Foreign travel

Oak Ridge National Laboratory employees who have been listed as foreign travelers include the following.

Edward Sonder, Solid State Division, presented a paper, "Magneto-Optical Properties of the F Center in  $KMgF_3$ ," at the Conference on Lattice Defects in Ionic Crystals, July 2-6.

Jerry Braunstein, Reactor Chemistry Division, presented a paper on his ORNL research on hydrous melts at the Fifteenth International Conference on Coordination Chemistry at the Lomonosov Moscow State University, USSR, June 25-30.

Robert K. Fujimura, Biology Division, presented "DNA Polymerases After Bacteriophage T5 Infection," at a poster session of the Ninth International Congress of Biochemistry at Stockholm, Sweden, June 30-July 7.



# Division Retirees



Callihan



Combs

Seven Y-12ers will retire this month, ending long careers with Union Carbide Corporation.

A. Dixon Callihan, director of the criticality studies department, came to work at Oak Ridge Gaseous Diffusion Plant in 1942 as a principal physicist. He was previously a university instructor and assistant professor. He holds a Ph.D. from New York University.

A fellow in the American Nuclear Society, Callihan was born in Scarboro, W. Va. He has countless technical papers and professional honors, and lives at 432 Oak Lane, Oak Ridge.

Wilburn W. Combs, statistical services, is a native of Jefferson, Tenn. He taught chemistry in high school, and served in the U.S. Army before coming to Y-12 March 12, 1946. He holds a B.S. degree in chemistry from Carson-Newman College.

Combs lives at 225 South Purdue Avenue, Oak Ridge.



Hargis



Loupe

John E. Hargis, general shop job liaison, joined Union Carbide in 1947. He attended Tennessee Polytechnic University, and did photography free-lance work before coming here.

Hargis lives at Route 1, Lenoir City. He is a native of Granville, Tenn.

James N. Loupe, construction engineering, attended the Missouri School of Mines and Central Missouri State College. He came to Y-12 after working at Oak Ridge Gaseous Diffusion Plant.

Born in Washington, Mo., Loupe lives at 89 West Norris Road, Norris.

Herbert B. McCowan, Tool Grinding, was born in Corbin, Ky., and worked there from 1926 until 1954 with the L&N Railroad. He moved to Oak Ridge in 1954 and presently lives at 104 Temple Road.



Wise



Phillips

Frank M. Wise was born in Kingston, and came to Y-12 in 1951. He served in the U.S. Army from 1943 until 1945. He lives at Kingston.

Clarence E. Phillips, electrical and electronics department, is a native of Briceville, where he still lives. He came to Y-12 in 1951, and worked previously in ORGDP during the war. He enjoys raising coon hounds at his Briceville home.



Mallet



Moon

The Oak Ridge Gaseous Diffusion marks two retirements... as Albert J. Mallet will retire at the end of this month, and Claude Firman Moon ended his Carbide career at the end of July.

Mallet, a department head in the Technical Division, lives at 107 West Magnolia Lane, Oak Ridge. He joined Union Carbide in 1944.

Moon, in Fabrication and Maintenance, lives at 805 Broyles Avenue, Maryville. He came to ORGDP in 1945.



Beasley



Mrs. Woods

Two veteran employees at the Paducah Gaseous Diffusion Plant retired recently.

Elnora Woods, a Fabrication and Maintenance Division employee, retired after more than 20 years at the Paducah Plant. She plans to pursue her hobby of growing flowers and shrubs at her 818 Jackson St., Paducah, home.

Countee Beasley, another employee from Fabrication and Maintenance Division, will be busy at his Paducah home also. He and his wife, Bertha, live at 1310 Atkins Street.



Kertesz

Francois Kertesz has retired from the Information Division at ORNL.

He was born in Oradea, Rumania, and received the Ph.D. degree in electrochemistry from the University of Paris. He



**ENGINEERING AWARD** — Union Carbide Corporation's Nuclear Division recently received the 1973 Industrial Professional Development Award presented by the National Society of Professional Engineers. The Corporation was honored for its forward-looking engineering employment practices. Accepting the award, from left, were Paul R. Vanstrum, vice president-production, Nuclear Division; Fred L. Shanklin, Union Carbide regional vice-president, midwest; and James F. Shivler, president of the NSPE, who made the award in Chicago.

## Professional engineers award goes to Nuclear Division for standards

The Nuclear Division recently received the 1972 Industrial Professional Development Award from the National Society of Professional Engineers. At a special luncheon in Chicago, Fred L. Shanklin, Union Carbide regional vice president-midwest, accepted the award for the Nuclear Division's Production Operations' Engineering Division. The Corporation was honored for its forward-looking engineering employment practices.

Selected by a five-member NSPE committee, Union Carbide was named on the basis of "its record of advancement and improvement of the engineering profession through development and use of forward-looking engineering employment practices in accordance with professional standards."

### Efforts cited

Nominated by the Tennessee Society of Professional Engineers, Union Carbide was cited for its outstanding leadership approach toward professionalism and its practice by company officials "as a way of corporate life."

The Production Operations' Engineering Division conducts a continuing program designed to motivate its engineers to seek registration. The company lists 339 employees classified by job title as engineers, and of that group 202 are licensed professional engineers and 37 are engineers-in-training. Besides the Division's director of engineering, 41 out of 45 managers and staff consultants are professional engineers.

previously worked at Columbia University, DuPont Corporation and the NEPA project in Oak Ridge. He joined the ORNL staff in 1951. His mastery of several languages is of special value.

Following his retirement from ORNL, Kertesz will be the European representative for Informatics, Inc. Informatics has a contract with the National Health Institute, and Kertesz is consulting at the Institute in Washington presently.

Union Carbide has sponsored an engineering science review program since 1968. This program, conducted in-plant during working hours by University of Tennessee professors, prepares engineers for the academic portion of the registration examination. Engineers are given time off, with pay, to take the registration exam.

### Support to professionals

The company encourages active participation in technical and professional societies and gives its engineers financial support to attend meetings at the state and national levels.

Union Carbide also offers broad opportunities for continuing education and professional growth. It pays a good portion of the tuition, books, fees, and supplies for courses, and may even grant leaves of absence for full-time study.

Last year, the company began a program to recruit young black engineering graduates into a one-year, on-the-job training program. Trainees work under selected supervisors, giving them a working knowledge of fluid mechanics, equipment associated with a large industrial plant, bills of material, specifications for and sizing of equipment, and a familiarity with the hardware used in design by the department.

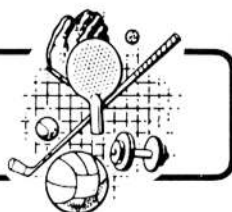
The Industrial Professional Development Award is administered by NSPE's Professional Engineering in Industry section.

## Foreign travel

John E. Bigelow, Chemical Technology Division, presented a paper, "Preparation and Calibration of <sup>252</sup>Cf Neutron Sources at the Oak Ridge National Laboratory," at the Inter-American Conference on Use and Calibration of Intense Sources of Radiation in Santiago, Chile, June 18-22.



# RECREATIONOTES



## ORNL PICNIC

ORNL's big D Shift staged a party at the Clark Center Recreation Park in mid-July. Horseshoe winners were J. Fields, C. McBee, C. Rector and S. Robson. Winners in the gamefest were Judy Fields, O.J. Harmon, Jimmy Lock, Robin Rector (twice a winner), Meagan Robson, Betty Sirmans, Z.R. Stalsworth, Kimberly Thompson and Donald Wade.

## ORGDP FISHING RODEO

Employees winning fishing awards in ORGDP's big semi-annual rodeo may pick up their awards in Building 101, Wing C, Room 136.

Following are the winners in the nine category contest:

### LARGEMOUTH BASS

Mrs. Larry S. Cisson, H.I. Pope and V.O. Maggart Jr.

### SMALLMOUTH BASS

J.L. Woody Jr., B.A. Guy, Harold D. Adkins and Richard R. Abbott.

### BREAM

Gary Walters (son of H.E.), Randall Adams (son of W.H.), W.H. Adams and J.A. Walker.

### CRAPPIE

E.A. Leach, W.G. Norton, C.W. Castle, Mrs. Majorie (J.D.) Hart.

### ROUGH FISH

Dwight Hart (son of J.D.).

### SAUGER

Lewis Walters (son of H.E.), and J.D. Hart.

### TROUT

Paul E. Jackson.

### WALLEYE

Mrs. H.E. Walters, H.E. Walters, and Mrs. Madelyn (N.D.) Rathbone.

## FINAL GOLF HEAT

Oak Ridge duffers will compete in their final competition of the season soon. Y-12 takes to Cedar Hill, ORNL to Southwest Point on August 25; while ORGDP plays Gatlinburg September 8. One couple entry covers the entire three-plant application. Please clip and save, or file now.

## Y-12 GOLF

Y-12's Shift League at South Hills recently saw W.A. Rutherford fire a low 37; and Ben Miller a low handicap score of 35 for week's honors. The Collins-Collins and Wheeler-Dick pairs are undefeated in the early part of the season.

## ORNL FISHING RODEO

Oak Ridge National Laboratory anglers saw Paul J. Jones net a nine pound largemouth bass, to take first place in the big semi-annual fishing rodeo. Winners may pick up their certificates in Building 4500, Wing 5, Room K-113.

Category-by-category winners are:

### LARGEMOUTH BASS

Paul J. Jones, K.R. Foust, Paul Crawford and S.W. Parks.

### SMALLMOUTH BASS

R. Payne, Lyndon Hurt (son of S.S.), R.H. Winget Jr., and D.L. Aubuchon.

### STRIPED BASS

E.B. Cagle, R.G. Shooster, Roscoe H. Jones and G.E. Pierce.

### BREAM

Mike Donham (son of K.W.), Alan Anderson (son of Lonnie L.), Dan Testerman (son of G.E.) and Bryce Philpot.

### CRAPPIE

Ralph L. Clark, Raymond Shooster (son of R.G.), Raymond T. Woods and Mrs. Lennie (R.L.) Standsbury.

### HYBRID OR ROCK

D.S. Carroll, John Carroll (son of D.S.) and W.W. Davis.

### MUSKIE

M.A. Baker.

### ROUGH FISH

John D. Sease, Sam Linginfelter (son of H.G.), A.B. Thornton and Mike Ryon (son of A.D.).

### SAUGER

Mrs. Georgette (R.G.) Shooster, D.L. Anfinson, W.T. Lackey and Casey Jones (son of G.W.).

### TROUT

W.H. Shanks, Ward Bandy, Gregory Jones (son of Roscoe H.) and E.B. Shepherd.

### WALLEYE

Arnold Beets, James Cagle (son of E.B.), H. Davidson and A.H. Matthews.

## Tee-Off Time Application for Aug. 25

(Check Appropriate Plant)

☐ Y-12-CEDAR HILLS

☐ ORNL - SOUTHWEST POINT

☐ ORGDP - GATLINBURG (September 8) ☐ Check 2 Carts

LEADER \_\_\_\_\_

Phone \_\_\_\_\_ Bldg. \_\_\_\_\_

Time Preferred \_\_\_\_\_

## COMPLETE AND RETURN TO YOUR RECREATION OFFICE

Entries must be received prior to drawing on August 22, 2 p.m. September 5 for ORGDP.

ORGDP-Building K1001-C Wing-MS 122

ORNL/Y-12-Building 9711-5

Tee-off times for all tournaments will be drawn on Wednesdays prior to each Saturday's tournament. Other than at Gatlinburg, golfers are responsible for reserving their own carts by contacting the pro shop following drawing for tee-off times.



**PADUCAH SWIMMING PROGRAM** — The weather was hot, the water cool and the sun was beaming on Noble Park Swimming Pool as the Carbide Swimming Program got into full swing recently. All summer long, that is, Carbiders may swim Saturdays from 9 a.m. until noon free. The swimming will close out August 25.

## CARBIDE SOFTBALL

Three teams have sustained only one loss in Carbide Softball standings in mid-July, as the Snakes, Colts and Tom's Gizzards all tie for top-standings in the summer play.

League standings follow:

Team	W	L
Tom's Gizzards	11	1
Snakes	11	1
Colts	9	1
All Stars	11	2
Raiders II	9	3
Red Baron	11	4
Yellow Jackets	9	4
Gashouse Gang	8	5
Supersonics	7	6
Losers	7	5
Computes	7	6
Ecology	5	7
Centaurs	4	8
Hornets	4	9
Bio Rejects	3	8
Buccaneers	4	11
K-25 Mech's	4	11
Playmakers	3	10
Gene's Gang	2	9
Al's Pals	2	11
Bombers	2	11



**YOUNG SWIMMER** — Who is this cat called Mark Spitz? asks this youngster, who recently showed up for a Carbide family swim at Noble Park, Paducah.

## CARBIDE GOLF

The South Hills Golf League lead lies in the hands of the Sise-Boyd team, three points ahead of Reece-Bryant, as the race tightens up considerably, with 60 percent of the teams within reaching distance of the top notch.

Southwest Point golfers put Patrick-Buffington in the lead over Schilling and Moon and Lay and Creswell.

## CARBIDE BOWLING

The Guys and Dolls move up in the Carbide Family Mixed Bowling League, inching their way toward the league-leading Oops team, who need to make up a match with the Big Four. The G & D team has a total pin fall of 14,988, high for the league.



# The Medicine Chest

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning their health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, or call the news editor in your plant, and give him your question on the telephone.)

By T. A. Lincoln, M.D.

**QUESTION:** "Is it a good idea to take salt tablets during hot weather?"

**ANSWER:** No! With a few exceptions, there is little justification for taking salt tablets. Individuals who are exposed to severe heat stress will need to supplement their salt intake by adding more to their food or drinking a weak salt solution. Salt tablets provide much more salt than is usually required and could be hazardous for persons with high blood pressure or heart disease. They also frequently cause nausea or cramping.

The average unacclimatized man who begins heavy physical work in a hot humid environment, for example, 90 degrees with 70 percent relative humidity, may sweat enough to lose ten pounds weight during an eight-hour day. That amount of weight loss is caused by the loss of a little over 4.5 liters of sweat. (A liter is 1.056 quarts.) If the sweat contains 3.5 grams of salt per liter, that means a loss of 15 grams of salt. The average intake of salt is about 10 grams a day so an increase in intake of only 50 percent would be adequate. Such an increase can easily be accomplished by either sprinkling extra salt on the food or adding about two grams of salt to every liter of water drunk.

The man mentioned above will acclimatize to the heat within a week. As he does, he will lose much less salt if his body needs to conserve it. In other words, if there is plenty of salt in his system, he will continue to pour out sweat with the same concentration of salt. If he does not replace his salt loss, his body will conserve it by reducing the amount lost in his sweat.

In this day and age with mechanization, air conditioning or fans and work breaks, few workers are subjected to really severe heat stress. Any that are exposed to moderate heat stress can supplement their salt intake, preferably by drinking weak salt water or adding more salt to their food.

**QUESTION:** "Is there any connection between broken or varicose veins in a woman's legs and the (birth control) pill?"

**ANSWER:** Varicose veins occur more frequently in women than in men and pregnancy predisposes a woman to this problem. Most varicose veins are caused by an inherited weakness in the valves in the large veins in the legs. As a person gets older and overweight, some of these valves begin to fail. When standing, the tissues surrounding the veins do not provide adequate support. The veins dilate and as the valves leak, blood is diverted to the superficial veins which become varicose. During pregnancy, the enlarging uterus also presses on the large veins in the pelvis, partially obstructing venous return and thereby aggravating the problem. Phlebitis in the legs causes

varicose veins by obstructing the deep veins, forcing the blood to find a new route back to the heart. Now, does taking oral contraceptives aggravate some of the above causes or does the pill act as a "special" cause?

Studies done at the Medical College of Georgia in 1964 showed that there is a general loss of venous tone in the veins of both the upper and lower extremities while taking the "pill" or while pregnant. It is a general hormone effect and must play a significant role in causing varicose veins. These tiny varices are probably caused by a somewhat different mechanism from the big varicose veins. Many pregnant women will develop small varices scattered over their legs which are not connected directly to the main veins. The hormone effect of the "pill" is similar to pregnancy. I am not aware of any good studies which compare the incidence of the small varices in normal women of various ages who have been on the pill for at least a year, and others who have never taken the "pill" and pregnant women. It is a clinical impression that the small varices are more common in women on the "pill". Further careful studies will be necessary.

In the meantime, a woman who already has large varicose veins should probably not take the pill. A normal woman who might get upset if she developed a few tiny, superficial veins on her legs, can always forego the "pill".

## WANTED



### Y-12 PLANT

**RIDE** from 122 Viking Road, Oak Ridge, to East Portal, straight day. S.B. Coram, plant phone 3-5226, home phone Oak Ridge 483-7534.

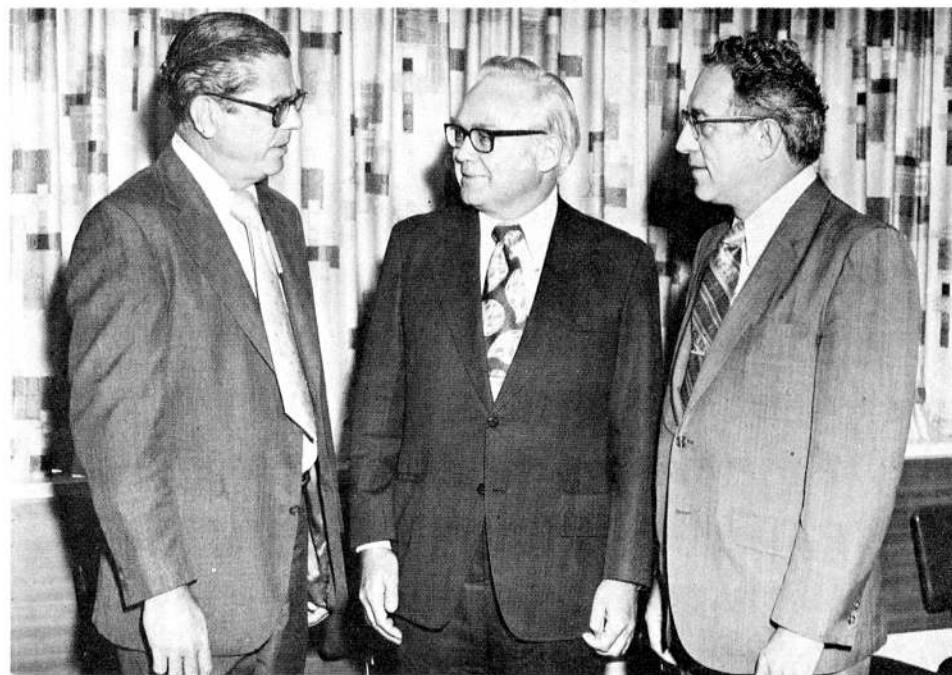
**JOIN** car pool from Powell, Tonya Drive, off Stamps Lane, to North Portal, straight day. E.B. Eglesby, plant phone 3-5209, home phone Powell 947-9440.

**JOIN** car pool from 114 Kingsley Road, Oak Ridge, to any portal, straight day. J.P. Seagle, plant phone 3-7036, home phone Oak Ridge 482-2082.

### ORNL

**CAR POOL MEMBER** from West Hills, Middlebrook Pike area to South Portal, 8 a.m. shift. J.W. Nave, plant phone 3-6766 or home phone Knoxville 588-0687.

**CAR POOL MEMBERS** from Waddell, West Outer or Pennsylvania Avenue area, Oak Ridge, to East or North Portal, 8:15 shift. Tom Burnett, plant phone 3-6929 or Oak Ridge 483-1975; or Dick Reed, plant phone 3-1901 or Oak Ridge 483-3458.



**CONGRESSIONAL VISIT** — Rep. Orval Hansen of Idaho, a member of the Joint Committee on Atomic Energy, visited Oak Ridge recently to tour Nuclear Division facilities and be briefed on various atomic energy activities. From left are Roger F. Hibbs, President of the Nuclear Division; Congressman Hansen; and Ray C. Armstrong, deputy manager, Oak Ridge Operations, Atomic Energy Commission.

## QUESTION BOX



(Continued from page 1)

who were charged with passing the information through their line organizations. Shortly after the superintendents' meeting, there was a meeting with ATLC officers to advise them of the anticipated effect on hourly employees, whom they represent. This is the normal method of communication in this type of situation.

Now let's address your benefit plan improvement example. A Memorandum of Understanding had been signed on February 23, 1973, by UCC personnel and several international union officials representing many hourly employees throughout the corporation - with the further understanding that the benefit plan improvements would not be announced by either party prior to March 8. It was a copy of this Memorandum of Understanding that was distributed by some unions on March 8, which they were free to do. In UCC divisions other than Nuclear, company announcements were also made on that date.

In the Nuclear Division, the approval of the AEC was required before such significant changes could be made. For this reason we were not able to communicate with employees promptly. We did, however, advise top management people of the situation but cautioned them that an official announcement could not be made unless and until we had AEC approval. Such approval was not received until April 18, at which time all salaried employees were promptly notified.

**QUESTION:** Why can men in coveralls (hourly-roll people) go to the parking lot after 3 p.m. and move their cars to a more convenient parking place, nearer the gate, and yet cannot go outside the gate during working hours to pick up their checks?

**ANSWER:** Company policy is that employees are not permitted to go to the parking lot during regular working hours to move their cars to more convenient parking spaces or to pick up their paychecks. Employees are expected to remain in their work area during their scheduled shifts unless they have obtained permission from their supervisor beforehand to leave the work area for warranted reasons.

### Y-12 FISHING RODEO

Y-12 has announced the winners in the semi-annual fishing rodeo, putting gift certificates in the hands of capable anglers throughout the plant.

Following are winners by categories:

#### LARGEMOUTH BASS

Ernest L. Martin, Elmer Green, E.T. Stair and R.F. Graham.

#### SMALLMOUTH BASS

J.S. Orr, A.L. Everett, Jerry M. Brown and L.L. Proffitt.

#### STRIPED BASS

G.H. Caylor, Boyd L. Green Jr., James D. Lawrence and Mike A. Estep.

#### CRAPPIE

Kenneth Kramer (son of William A. Kramer), R.S. Phillippi, Kevin Jago (son of W.R. Jago) and A.H. Hunter.

#### BREAM

Luther Thurman Jr. and J.N. Treadwell.

#### MUSKIE

B.A. Murr.

#### ROCK AND HYBRID

Mrs. G.H. Caylor, John M. Guttery and Carl Roddy.

#### ROUGH FISH

Mrs. Don (Louie Mae) Jordan.

#### SAUGER

Ray C. Kelley, G.N. Wiseman and S.L. Newton.

#### TROUT

S.H. Green, B.K. Reedy Jr., Joe Jackson and G.E. Valentine.

#### WALLEYE

Mrs. Frank (Betty) Winstead Jr., G.W. Smith, J.W. Graves and C.B. Russell.

## COMPANY Service

20 25 30

#### ORGDP 25 YEARS

Frances G. Campbell and Dorothy S. Way.

#### 20 YEARS

David E. Cardwell Jr., Alvin H. Marten and James M. Campbell.

#### PADUCAH

#### 20 YEARS

Robert M. Nelson.



# 10 pass CPS tests

N 73-83



BARBARA WHITE



VIVIAN ZEDLER



DRAMIA SMITH

(Continued from page 2)

College in Knoxville. She has also attended The University of Tennessee Night School, and taken the CPS review courses. In addition, Mrs. Smith has participated in the job enrichment seminars at ORNL.

Mrs. Smith and her husband, Robert, live at 204 East Drive, Oak Ridge. They have a son, Robert, and a daughter, Brenda Templeton.

## Barbara White

Barbara White, Thermonuclear Division, a native of Wartburg, is a graduate of Knoxville Business College. She came with Union Carbide in 1968.

She and her husband, Clarence, live in Wartburg, where he teaches at Central High School.

Mrs. White enjoys sewing, particularly macrame and crewel, and refinishes old furniture in her spare time.

## M. Vivian Zedler

M. Vivian Zedler, has been secretary to the director of the Instrumentation and Controls Division for almost 17 years.

Mrs. Zedler was born in Modesto, Calif., and later moved to Alabama. She

attended Lincoln Memorial University, Roane State Community College and is currently working toward a degree in business administration at The University of Tennessee.

Mrs. Zedler has also taken the CPS review courses sponsored by NSA, and the job enrichment seminars offered at ORNL.

Among her hobbies, Mrs. Zedler lists knitting, sewing and gardening. She also enjoys traveling and sightseeing. Her husband, Richard, also works in the Instrumentation and Controls Division at ORNL. They live at 109 Normandy Road, Oak Ridge.

It is believed that the addition of the 10 Nuclear Division secretaries to the CPS lists brings the total to approximately 50 Certified Professional Secretaries in the Division. Only 613 passed the test in the nation, of the 2,380 participating in the examinations.

## PAYROLL SAVINGS

Purchasing U.S. Savings Bonds through payroll deductions is an effortless way to save, and you'll be surprised how fast they accumulate.

## Y-12's safety

(Continued from page 1)

Robert J. Hart, Manager of the Oak Ridge Operations of the AEC, added his congratulations to Sneath's and Vanstrum's in presenting the AEC's Award of Honor.

"We are not completely satisfied," Case concluded, in accepting the awards. "People still get hurt, so we recognize the need for continuing improvement in various facets of our program. We shall keep working toward continued management involvement and on the proper safety attitude of all employees."

The Y-12 Plant's disabling injury frequency rate (number of lost-time accidents per million man-hours worked) has been below 1.0 for the past 11 years, reaching an all-time low of .07 last year. (The average frequency rate for American industry is 9.0.)

## COMPANY Service

20 25 30

### ORNL 25 YEARS

David H. Doherty, Frank Wester Jr., Russell D. Westbrook, Meredith R. Hill, Glenn G. Underwood, Richard L. Lines, Calvin E. Lamb, James C. Hart, Paulus S. Lee, Clyde R. Smith, Edwin F. Phares, Jerry H. Goode and William D. Gude.

### 20 YEARS

Dock A. Stewart, Clarence E. Zachary, Fred P. Jeffers, Marjorie B. White, Charles R. Boston, George A. Windle Jr., Charles D. Scott, Murray W. Rosenthal, Fred G. Leon, Ann R. Farris, William O. Wells, Charles E. Waggoner, Newell A. Miller, Ray Burns and Emerson H. Guinn.

## Patents granted

To Wayne F. Johnson and William R. Miller, ORNL, for "Reaction End-Point Recorder for Use with a Rotary Analytical Photometer."

## Next Issue

The next issue will be dated August 16. The deadline is August 8.



## UNION CARBIDE CORPORATION

NUCLEAR DIVISION

P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

ADDRESS CORRECTION REQUESTED

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